

A SYNTHETIC POLYNUCLEOTIDE ENCODING HUMAN LACTOFERRIN,  
VECTORS, CELLS AND TRANSGENIC PLANTS CONTAINING IT

ABSTRACT

A synthetic polynucleotide encoding human lactoferrin, modified with respect to the natural gene so as to maximize its expression in vegetals, on the basis of the preferential use of the codons is described. Moreover, the vectors containing such sequence, that having regulation elements activated in a controlled way determine its tissue- and stage-specific expression are further described. The vegetal cells and the plants transformed with the afore mentioned vectors, as well as the production processes of functional foods, vegetal milks, and human lactoferrin, utilizing them are also described.